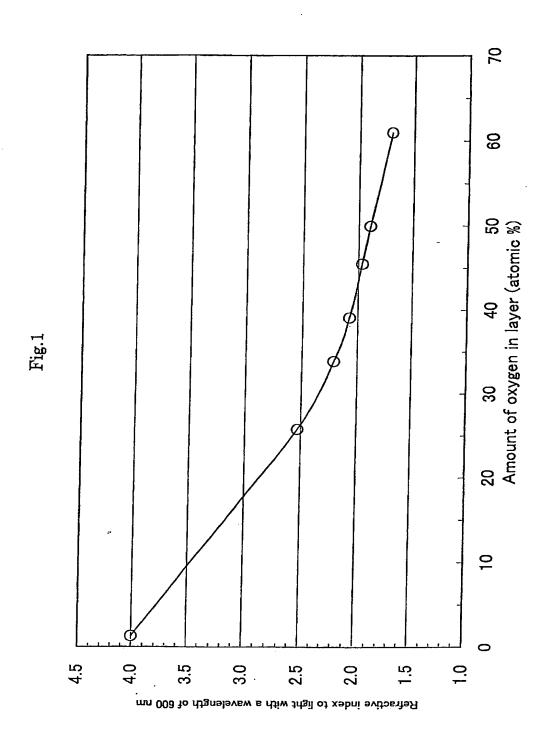
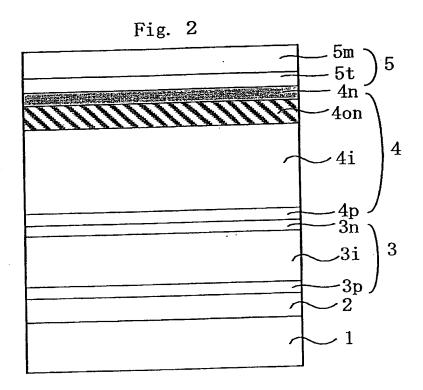
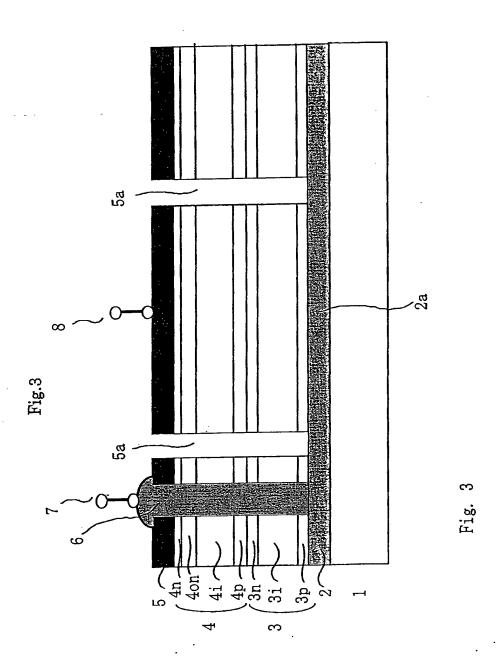
Hogan & hartson 81844.0048 Toru SAWADA et al. Silicon Based Thin Film Solar Cell EV 667 735 875 US 7 Drawing Sheets; Sheet 1 of 7



Hogan & hartson 81844.0048 Toru SAWADA et al. Silicon Based Thin Film Solar Cell EV 667 735 875 US 7 Drawing Sheets; Sheet 2 of 7



Hogan & hartson 81844.0048 Toru SAWADA et al. Silicon Based Thin Film Solar Cell EV 667 735 875 US 7 Drawing Sheets; Sheet 3 of 7



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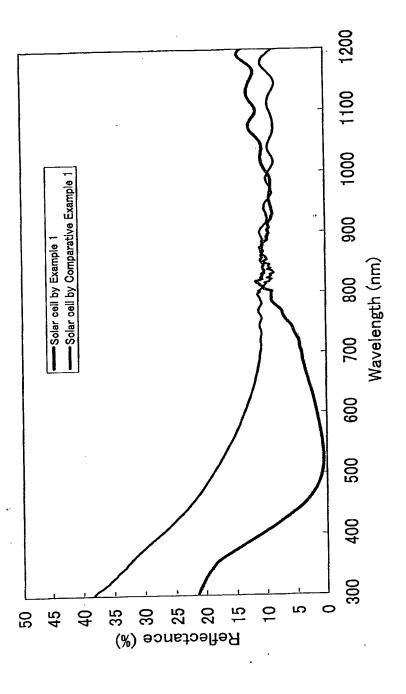
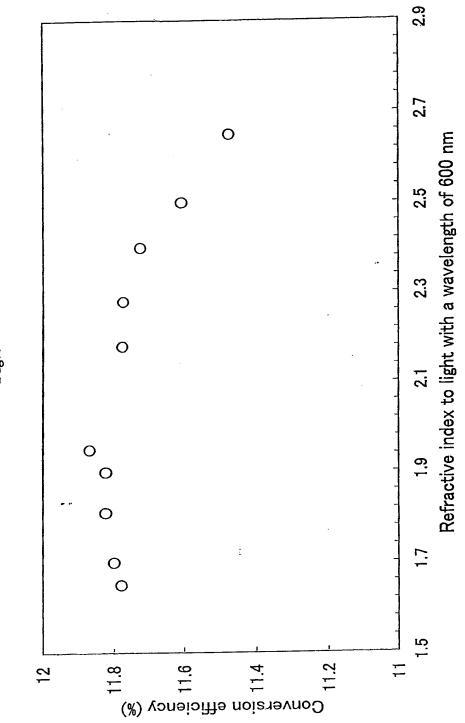


Fig.4

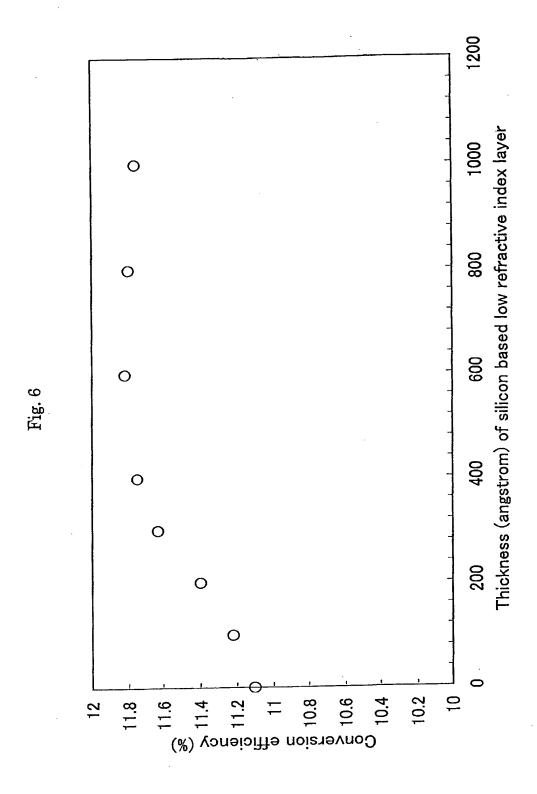
Hogan & hartson 81844.0048 Toru SAWADA et al. Silicon Based Thin Film Solar Cell EV 667 735 875 US 7 Drawing Sheets; Sheet 5 of 7

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ig. 5

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Fig.7



Back reflecting Layer

Transparent reflecting layer
Silicon based low refractive index layer +
Silicon based interface layer

Crystalline i type silicon photoelectric conversion laver

 $0.5\,\mu\,\mathrm{m}$